

CLAIMS

1. Concentrator photovoltaic generator, comprising at least one photovoltaic cell (101) covered by a transparent protection layer (102) and a reflecting concentrator (106), characterized in that the concentrator (106) is covered by a filter (206, 306) to eliminate in the luminous flux (208) reflected by the concentrator (106) toward the photoelectric cell (101) most of the "unwanted" radiation (218) that is not able to excite the photovoltaic cell (101).
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2. Generator according to claim 1, characterized in that the filter is formed of a layer (306) made from materials absorbing the "unwanted" portion of the radiation.
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3. Generator according to claim 2, characterized in that the layer (306) forming the filter is of constant thickness.
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4. Generator according to either claim 1 or claim 2, characterized in that the filter (206) is formed of a layer whose exterior face (116) is oriented to divert this "unwanted" radiation (218) out of the voltaic cell (101).
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5. Generator according to claim 4, characterized in that the transparent layer (206) is of decreasing thickness so that its exterior face (116) is not parallel to the reflecting surface of the concentrator (106).
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6. Generator according to either claim 4 or claim 5, characterized in that the exterior face of the transparent layer forming the filter (206) is etched to form Fresnel steps.